

5 x Interchangeable Display Modules for TPC-B200 Computing Box TPC-B500 Computing Box FPM-B700 Computing Box

Display Module Series - 21.5" Full HD/18.5" HD/17" SXGA/ 15" XGA/12" XGA LED LCD



Features

- Modular front display design in three application-based module categories, enabling flexible configurations
- Front panel module with P-CAP multi-touch sensor available in various sizes (12.1" module is equipped with 5-wire resistive touch control)
- Industrial-grade LED LCD with 50,000 hours (18.5" 30,000 hours) lifetime
- Built-in intelligent home key and i-Key (only models with P-CAP touch)
- System status LED indicators in front panel
- IP66-rated front panel and panel mount
- Built-in Wi-Fi antenna and NFC reader on front panel (with optional Wi-Fi/NFC module)
- Rear mounted computing box module is necessary to activate display module

Introduction

Advantech's modular display series offers five display modules ranging between 12.1" and 21.5" inches in size to go with three computing boxes (TPC-B200/TPC-B500/ FPM-B700) for a total of 25 potential configurations that can be flexibly adapted to various scenarios. Modular display series are equipped with industrial grade LCD and Projected Capacitive touch (12" Resistive touch) screens, providing the best user experience and reliable operation. The modular design ensures flexible configuration and easy maintenance/upgrades. Its robust enclosure is equipped with a die-cast aluminum alloy front bezel and IP66 rating for protection from dust and water ingress. Moreover, optional Wi-Fi/NFC antennas can be built into the front panel for enhanced connectivity and signal reception.

Specifications

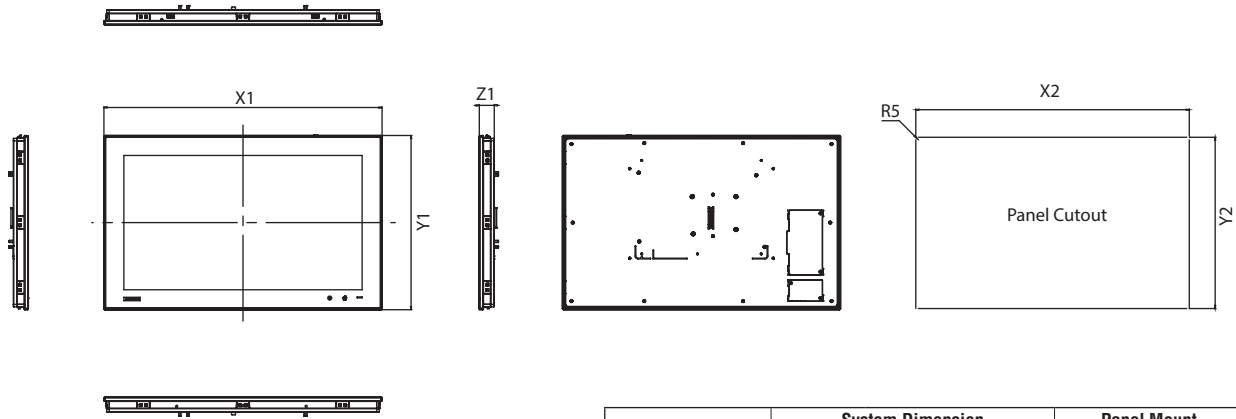
| Category | Item | 12.1" | 15" | 17" | 18.5" | 21.5" |
|-------------|--------------------------------|------------------|----------------------|----------------------|----------------------|----------------------|
| LCD | Display Type | XGA TFT LED LCD | XGA TFT LED LCD | SXGA TFT LED LCD | HD TFT LED LCD | Full HD TFT LED LCD |
| | Max. Resolution | 1024 x 768 | 1024 x 768 | 1280 x 1024 | 1366 x 768 | 1920 x 1080 |
| | Max. Color | 16.2 M | 16.7 M | 16.7 M | 16.7 M | 16.7 M |
| | Luminance (cd/m ²) | 600 | 400 | 350 | 250 | 300 |
| | Viewing Angle (H/V°) | 160/140 | 160/140 | 160/140 | 170/160 | 178/178 |
| | Backlight Life | 50,000 hrs | 50,000 hrs | 50,000 hrs | 30,000 hrs | 50,000 hrs |
| | Contrast Ratio | 700:1 | 700:1 | 800:1 | 1000:1 | 5000:1 |
| Touch Panel | Type | 5-wire resistive | Projected capacitive | Projected capacitive | Projected capacitive | Projected capacitive |
| | Light Transmission | Above 75% | 90% ± 3% | 90% ± 3% | 90% ± 3% | 90% ± 3% |
| | Treatment | Anti-glare | Anti-glare | Anti-glare | Anti-glare | Anti-glare |
| Part Number | | FPM-D12T-AE | FPM-D15T-AE | FPM-D17T-AE | FPM-D18W-AE | FPM-D21W-AE |

Note: Display modules cannot work independently. A computing box module is necessary to activate the display module.

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Dimensions

Unit: mm



| Display Type | System Dimension | | | Panel Mount | |
|--------------------------|------------------|-------|------|-------------|-------|
| | X1 | Y1 | Z1 | X2 | Y2 |
| 12" XGA LCD | 311.8 | 238 | 27.1 | 303 | 229 |
| 15" XGA LCD | 383.2 | 307.3 | 27.5 | 374.5 | 298.5 |
| 17" SXGA LCD | 410.4 | 343.4 | 28.3 | 401.3 | 334.8 |
| 18.5" HD LCD | 488 | 309 | 30.3 | 479.3 | 300.3 |
| 21.5" Full HD LCD | 559.2 | 350.6 | 30.3 | 550.3 | 341.8 |

Ordering Information

| Panel Module P/N | FPM-D12T-AE | FPM-D15T-AE | FPM-D17T-AE | FPM-D18W-AE | FPM-D21W-AE |
|------------------|-----------------------|---------------------|----------------------|----------------------|-----------------------|
| Description | 12.1" XGA TFT LED LCD | 15" XGA TFT LED LCD | 17" SXGA TFT LED LCD | 18.5" HD TFT LED LCD | 21.5" Full HD LED LCD |

Note: Display modules can't work independently. A computing box module is necessary to activate the display module.

Configurable Rear Computing Box

| Box Module P/N | Description |
|----------------|--|
| TPC-B200-J12AE | Intel® Celeron® J3455 1.50 GHz processor with 4 GB DDR3L |
| TPC-B500-6C2AE | Intel® Celeron® 3955U 2.00 GHz processor with 4 GB DDR4 |
| TPC-B500-633AE | Intel® Core™ i3-6100U 2.30 GHz processor with 8 GB DDR4 |
| TPC-B500-673AE | Intel® Core™ i7-6600U 2.60 GHz processor with 8 GB DDR4 |
| TPC-B500-653AE | Intel® Core™ i5-6300U 2.40 GHz processor with 8 GB DDR4 |
| FPM-B700-AE | Monitor Rear Box without I/O module (Coming Soon!) |

Note: FPM-B700 doesn't include an I/O module. Up to two I/O modules are necessary for signal reception.

Configurable I/O Module for FPM-B700

| I/O Module P/N | Description |
|----------------|----------------------------|
| FPM-M700-HDAE | HDMI + +USB Touch Module |
| FPM-M700-DPAE | Display + USB Touch Module |
| FPM-M700-TRAE | iLINK Tx + Rx Module |
| FPM-M700-RXAE | iLINK Rx Module |

Optional Accessories

| Part Number | Description |
|-------------|---|
| 98R35000010 | Wi-Fi module 802.11 bgn/RT5390 1T1R with USB signal |
| 98R35000000 | USB NFC/RFID module ADT-006 |

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9